

## IMAGING APPARATUS AND METHOD, RECORDING MEDIUM, AND PROGRAM

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- **European:**

**Application number:** JP20020114262 20020417

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### Abstract of JP2003309856

PROBLEM TO BE SOLVED: To acquire a spectral image of an object with a motion.

SOLUTION: In a step S1, a high speed imaging section applies photoelectric conversion to an optical image of an object to produce a high speed image signal. In a step S2, a filter discrimination section analyzes the high speed image signal to detect a marking of a border area, in a step S3, a type of spectral filter placed before and after the marking is discriminated on the basis of a pattern of the detected marking, a corresponding filter discrimination signal is generated and outputted to a sort section. In a step S4, the sort section shares pixel data configuring the high speed image signal to built-in frame memories provided to each channel on the basis of the filter discrimination signal and outputs pixel data stored in the frame memories as a spectral image by eight channels every time a filter disk turns around. This invention is applicable to e.g. multi-spectral cameras.

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マルチスペクトル画像  
取得処理スタート

S1

高速撮像

S2

境界領域の  
マーキングを検出

S3

マーキングに基づき、  
フィルタを判別

S4

撮像した画像データを  
要素毎に振り分け

エンド

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